

6 TP + 2 fiber

1. Pin setting

Pin 96 : FX6_Half (1: half duplex, 0 : full duplex(default)),

Pin 97 : FX6_EN (1: enable, 0 : disable(default)),

Pin 86: FX7_Half (1: half duplex, 0 : full duplex(default)),

Pin 85: FX7_EN (1: enable, 0 : disable(default)),

6 TP + 2 fiber + 1 Web Management Controller

1. Pin setting

Pin 53 : EXTMII_EN (1: enable, 0 : disable(default)),

Pin 96 : FX6_Half (1: half duplex, 0 : full duplex(default)),

Pin 97 : FX6_EN (1: enable, 0 : disable(default)),

2. There are two methods to set Port 7 fiber mode when EXTMII_EN is 1.

a. EEPROM

EEPROM Register 0x04(04): switch control register 2

Bit	Signal name	Description	R/W	Default
4:3	OP1	Port 7 fiber mode 00 or 01: Port1, 3, 5, 7 nway with all capability 10: Port7 FX full duplex 11: Port7 FX half duplex	R/W	2'b00
2:1	OP0	Port 6 fiber mode 00 or 01: Port0, 2, 4, 6 nway with all capability 10: Port6 FX full duplex 11: Port6 FX half duplex	R/W	2'b00

The followings are two examples.

Example 1. EEPROM setting for port 6, port 7 fiber mode and 100Mbps full duplex

```
aa 55 0b 77 14 02 01 00 01 00 01 00 01 00 01 00
01 00 01 00 02 00 02 00 00 00 00 00 ff 01 7f 01
```

```

80 01 ff 01 ff 01 ff 01 ff 01 ff 01 ff 01 ff 01 ff 01
ff 01 ff 01 ff 01 ff 01 ff 01 ff 01 ff 01 80 01 00 00
ff 01 ff 01 ff 01 ff 01 ff 01 ff 01 ff 01 ff 01 ff 01
ff 01 10 00 00 00 00 00 00 00 ff ff 00 00 00 c2
80 01 00 05 00 00 00 00 00 00 00 01 00 00 00 00
00 00 00 00 00 00 00 00 00 00 00 00 00 8d 00 00

```

Example 2. EEPROM setting for port 6, port 7 fiber mode and 100Mbps half duplex

```

aa 55 0b 77 1E 02 01 00 01 00 01 00 01 00 01 00
01 00 01 00 02 00 02 00 00 00 00 00 00 ff 01 7f 01
80 01 ff 01 ff 01 ff 01 ff 01 ff 01 ff 01 ff 01 ff 01
ff 01 ff 01 ff 01 ff 01 ff 01 ff 01 ff 01 80 01 00 00
ff 01 ff 01 ff 01 ff 01 ff 01 ff 01 ff 01 ff 01 ff 01
ff 01 10 00 00 00 00 00 00 00 00 ff ff 00 00 00 c2
80 01 00 05 00 00 00 00 00 00 00 01 00 00 00 00
00 00 00 00 00 00 00 00 00 00 00 00 00 8d 00 00

```

b. MDC/MDIO

MII_reg	Signal name	Description	R/W	Default
30.2[4:3]	OP1	Port 7 fiber mode 00 or 01: Port1, 3, 5, 7 nway with all capability 10: Port7 FX full duplex 11: Port7 FX half duplex	R/W	2'b00
30.2[2:1]	OP0	Port 6 fiber mode 00 or 01: Port0, 2, 4, 6 nway with all capability 10: Port6 FX full duplex 11: Port6 FX half duplex	R/W	2'b00